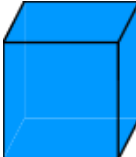
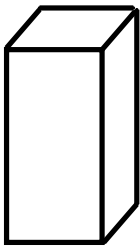


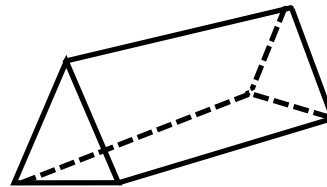
Calculating Volume:

Cubes 

Rectangular Prisms

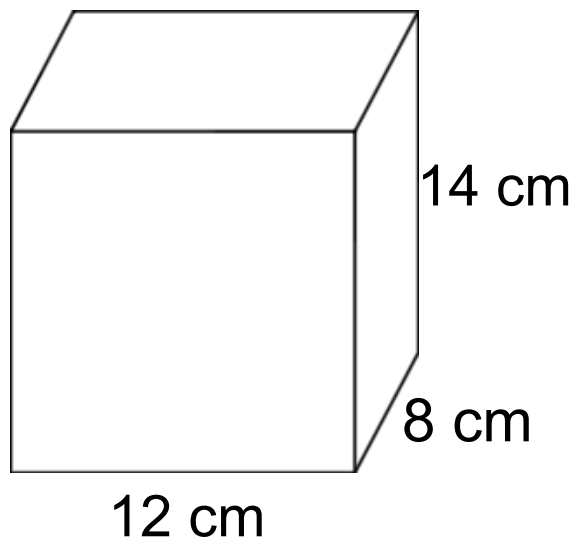


and



Triangular Prisms

But first ... let's review surface area!



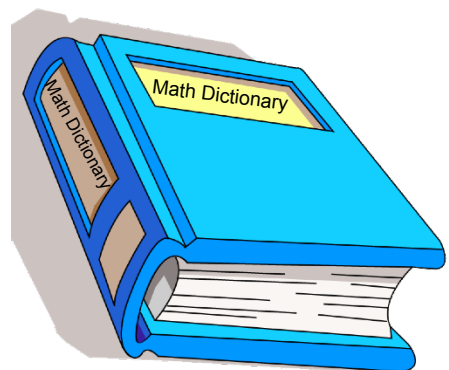
.

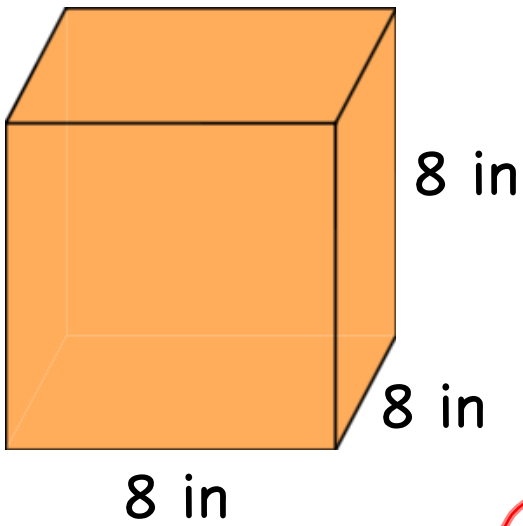
Formula Page

+

Volume of a cube:

$$V = s^3 \text{ or } s \bullet s \bullet s$$

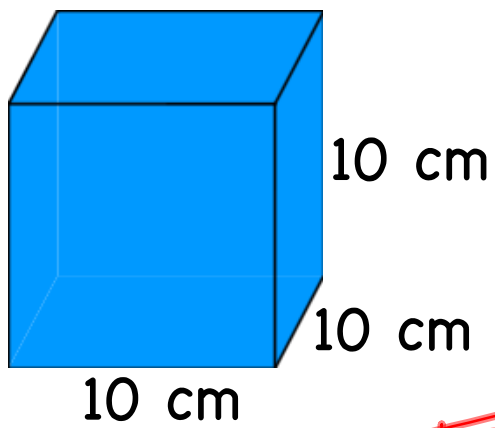




$S \cdot S \cdot S$ or S^3

$8 \cdot 8 \cdot 8$

512 in^3

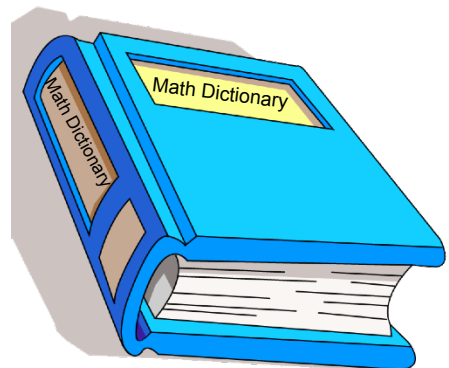
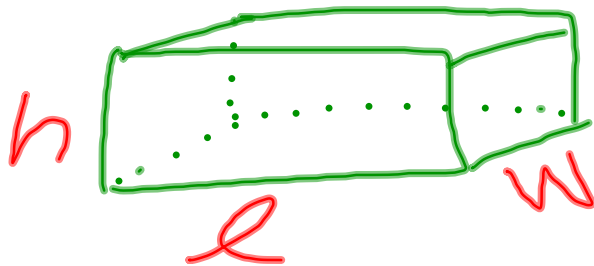


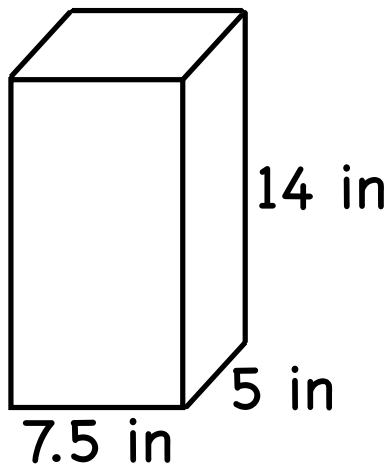
10^3
 10^3
 1000cm^3

Formula Page

Volume of a rectangular prism:

$$V = l \cdot w \cdot h$$

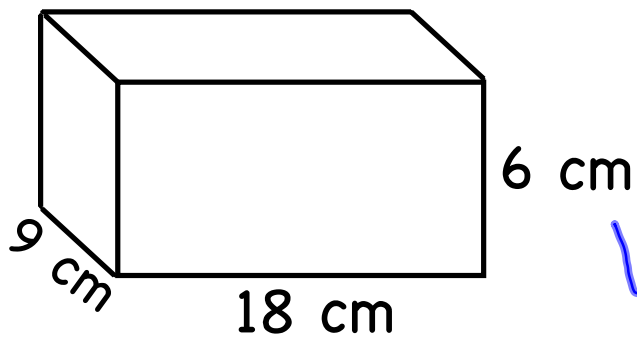




$$V = l \cdot w \cdot h$$

$$V = 14 \cdot 5 \cdot 7.5$$

$$525 \text{ in}^3$$



$$V = l \cdot w \cdot h$$

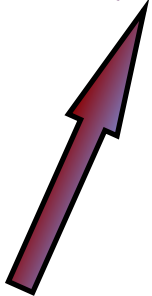
$$V = 18 \cdot 9 \cdot 6$$

$$972 \text{ cm}^3$$

Formula Page

Volume of a triangular prism:

$$V = (0.5 \cdot b \cdot h) \cdot h$$



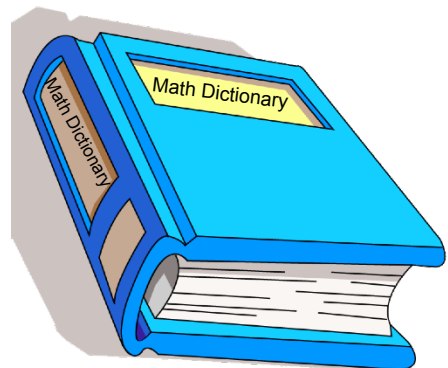
This "h" stands for
the height of the
triangle base.

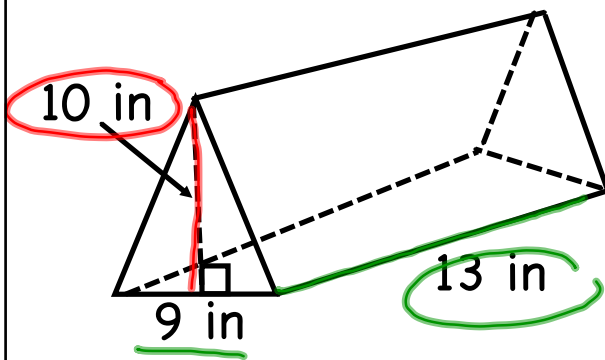
This "h" stands
for the height
of the prism.

IMPORTANT NOTE: Use the triangle base formula
that you picked and wrote in your Math Dictionary.

$$V = \left(\frac{b \cdot h}{2} \right) \cdot h$$

Prism

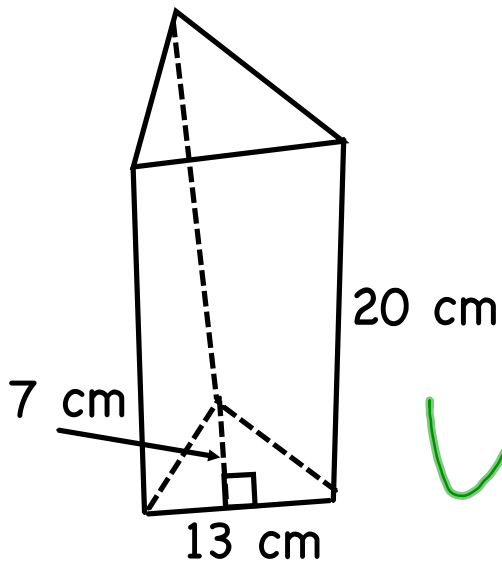




$$V = (.5 \cdot b \cdot h) \cdot l$$

$$V = (.5 \cdot 9 \cdot 10) \cdot 13$$

$$585 \text{ cm}^3$$



$$V = \left(\frac{b \cdot h}{2} \right) l$$

$$V = \left(\frac{13 \cdot 7}{2} \right) 20$$

$$910 \text{ cm}^3$$

Homework volume packet